

## Claims

We claim:

1. A leveling system for a reversing assembly comprising:
  - a lift arm assembly;
  - 5 a pair of attachment members attached at a first end of each attachment member to said lift arm assembly;
  - a leveling carriage attached to a second end of each attachment member;
  - a reversing table rotatably attached to said leveling carriage; and
  - a frame rotatably attached to said reversing table and rotatably attached to said
  - 10 leveling carriage.
2. The leveling system of claim 1 wherein said pair of attachment members comprises a pair of lift chains.
3. The leveling system of claim 1 further comprising actuator means for adjusting the angle of said reversing table with respect to said A-frame.
- 15 4. The leveling system of claim 1 wherein a first connector attaches said reversing table to said leveling carriage between a first position on said reversing table and a first position on said leveling carriage and a second connector attaches said reversing table to said leveling carriage between a second position on said reversing table and a second position on said leveling carriage, wherein the distance between said first position on said reversing
- 20 table and said first position on said leveling carriage is equal to the distance between said second position on said reversing table and said second position on said leveling carriage.
5. The leveling system of claim 4 wherein said first connector and said second connector are a pair of parallel bars.
6. The leveling system of claim 4 wherein the distance between the point at

which said leveling carriage attaches to said A-frame and the point at which said A-frame attaches to said reversing table is equal to the distance between said first position on said reversing table and said first position on said leveling carriage.

7. The leveling system of claim 1 wherein said leveling carriage may attach to  
5 said frame and said pair of attachment members at any of a plurality of positions.

8. The leveling system of claim 1 wherein said frame is an A-frame.

9. A leveling system for an attachment mounted to a vehicle comprising:  
a frame assembly rotatably mounted to the vehicle;  
a lift arm assembly rotatably mounted to the vehicle;  
10 a reversing table rotatably attached to said frame assembly at a first hinge  
point;  
a leveling carriage rotatably attached to said reversing table and rotatably  
attached to said frame assembly;  
means for securing the lift arm assembly to said leveling carriage; and  
15 a pair of connecting means for securing said leveling carriage to said reversing  
table.

10. The leveling system of claim 9 wherein said lift arm assembly is located above  
said frame assembly.

11. The leveling system of claim 9 wherein said means for securing the lift arm  
20 assembly to said leveling carriage are a pair of lift chains.

12. The leveling system of claim 9 wherein said pair of connecting means for  
securing said leveling carriage to said reversing table are a pair of parallel bars.

13. The leveling system of claim 9 wherein the distance between said first hinge  
point and the axis of rotation between said leveling carriage and said frame assembly is equal

to the distance between the axes of rotation along said leveling carriage and said reversing table as defined by each of said pair of connecting means for securing said leveling carriage to said reversing table.

14. The leveling system of claim 11 wherein said leveling carriage may attach to  
5 said frame assembly and said pair of connecting means at any of a plurality of positions.

15. The leveling system of claim 11 wherein said frame assembly is an A-frame assembly.